

09/866,030

2

IN THE CLAIMS:

Claim 1 (Previously amended): A biosensor comprising
a support substrate having first and second ends,
electrodes positioned on the support substrate, the electrodes cooperating with one
another to define electrode arrays situated adjacent to the first end,
a spacer substrate positioned on the support substrate, the spacer substrate having
members, and
a cover positioned on the spacer substrate, the cover cooperating with support
substrate to define a channel, the channel extending between the members of the spacer
substrate and including an inlet adjacent to the first end of the support substrate, and
opposite ends, each electrode array being positioned in the channel adjacent to one of the
opposite ends.

Claim 2 (Original): The biosensor of claim 1 wherein the cover and the support
substrate are formed to include a notch in general alignment with one another.

Claim 3 (Original): The biosensor of claim 2 wherein each notch is generally
concave in shape.

Claim 4 (Original): The biosensor of claim 1 wherein the spacer substrate
includes a first member extending between the ends.

Claim 5 (Previously amended): The biosensor of claim 4 wherein the
members of the spacer substrate include a second member positioned between one end
and the sample inlet and a third member positioned between the opposite end and the
sample inlet.

Claim 6 (Previously amended): The biosensor of claim 4 wherein the
members of the spacer substrate include second and third members spaced-apart from the
first member and the channel extends between the first, second, and third members.

Claim 7 (Original): The biosensor of claim 1 wherein the sample inlet is
positioned to lie between the electrode arrays.

Claim 8 (Previously amended): A biosensor comprising:
a support substrate,
a first electrode set positioned on the support substrate,

09/866,030

3

a second electrode set positioned on the support substrate, the first and second electrode sets being spaced-apart from one another,

a spacer substrate positioned on the support substrate, the spacer substrate having members, and

a cover extending across the first and second electrode sets, the cover cooperating with the support substrate to define a generally linear capillary channel extending between members of the spacer substrate, the channel having opposing first and second ends and an inlet positioned between the ends and between the first and second electrode sets.

Claim 9 (Cancelled).

Claim 10 (Currently amended): The biosensor of claim 9 wherein the members of the spacer substrate include a first member extending between the ends for the channel.

Claim 11 (Previously amended): The biosensor of claim 10 wherein the members of the spacer substrate include a second member positioned between one end and the inlet and a third member positioned between the opposite end and the inlet.

Claim 12 (Previously amended): The biosensor of claim 10 wherein the members of the spacer substrate include second and third members spaced-apart from the first member and the channel extends between the first, second, and third members.

Claim 13 (Original): The biosensor of claim 8 wherein the cover and the support substrate are formed to include a notch in general alignment with one another.

Claim 14 (Original): The biosensor of claim 13 wherein each notch is generally concave in shape.

Claim 15 (Original): The biosensor of claim 13 wherein the inlet intersects the notches.

Claims 16-19 (Canceled).

Claim 20 (Currently added): A biosensor comprising
a support substrate having first and second ends,
electrodes positioned on the support substrate, the electrodes cooperating with one another to define electrode arrays situated adjacent to the first end,

09/866,030

4

a spacer substrate positioned on the support substrate, the spacer substrate having first, second, and third members, and

a cover positioned on the spacer substrate, the cover cooperating with support substrate to define a channel, the channel extending between the three members and including an inlet positioned between the second and third members adjacent to the first end of the support substrate and spaced-apart first and second opposite ends, the first opposite end being positioned between the first and second members and the second opposite end being positioned between the first and third members, each electrode array being positioned in the channel adjacent to one of the opposite ends.

Claim 21 (Currently added): The biosensor of claim 20 wherein the cover and the support substrate are formed to include a notch in general alignment with one another.

Claim 22 (Currently added): The biosensor of claim 21 wherein each notch is generally concave in shape.

Claim 23 (Currently added): The biosensor of claim 20 wherein the inlet intersects the notches.